

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/019,114
Source: PCP/10
Date Processed by STIC: 9/2/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN ASSISTANCE: e-mail: [robert.wax @ uspto.gov](mailto:robert.wax@uspto.gov) Telephone: 703-306-4119

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
EFFECTIVE MAY 1, 2003 (via USPS): Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/019,114</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping".	
2 <input checked="" type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 3 rd amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>.<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>.<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003

TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
 Output Set: N:\CRF4\04022003\J019114.raw

5 <110> APPLICANT: Sagami Chemical Research Center,
 7 Protegene Inc.
 11 <120> TITLE OF INVENTION: Human proteins having hydrophobic domains and DNAs encoding
 these
 13 proteins
 16 <130> FILE REFERENCE: 661925
 C--> 20 <140> CURRENT APPLICATION NUMBER: US/10/019,114
 C--> 20 <141> CURRENT FILING DATE: 2002-10-24
 20 <150> PRIOR APPLICATION NUMBER: JP 11-188835
 22 <151> PRIOR FILING DATE: 1999-07-02
 26 <160> NUMBER OF SEQ ID NOS: 30

Many Errors

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

30 <210> SEQ ID NO: 1
 32 <211> LENGTH: 233
 34 <212> TYPE: PRT
 36 <213> ORGANISM: Homo sapiens
 40 <400> SEQUENCE: 1
 42 Met Trp Gln Leu Leu Ala Ala Ala Cys Trp Met Leu Leu Leu Gly Ser
 44 1 5 10 15
 46 Met Tyr Gly Tyr Asp Lys Lys Gly Asn Asn Ala Asn Pro Glu Ala Asn
 48 20 25 30
 50 Met Asn Ile Ser Gln Ile Ile Ser Tyr Trp Gly Tyr Pro Tyr Glu Glu
 52 35 40 45
 54 Tyr Asp Val Thr Thr Lys Asp Gly Tyr Ile Leu Gly Ile Tyr Arg Ile
 56 50 55 60
 58 Pro His Gly Arg Gly Cys Pro Gly Arg Thr Ala Pro Lys Pro Ala Val
 60 65 70 75 80
 62 Tyr Leu Gln His Gly Leu Ile Ala Ser Ala Ser Asn Trp Ile Cys Asn
 64 85 90 95
 66 Leu Pro Asn Asn Ser Leu Ala Phe Leu Leu Ala Asp Ser Gly Tyr Asp
 E--> 68 100 100 105 105 110
 70 Val Trp Leu Gly Asn Ser Arg Gly Asn Thr Trp Ser Arg Lys His Leu
 72 115 120 125
 74 Lys Leu Ser Pro Lys Ser Pro Glu Tyr Trp Ala Phe Ser Leu Asp Glu
 76 130 135 140
 78 Met Ala Lys Tyr Asp Leu Pro Ala Thr Ile Asn Phe Ile Ile Glu Lys
 80 145 150 155 160
 82 Thr Gly Gln Lys Arg Leu Tyr Tyr Val Gly His Ser Gln Gly Thr Thr
 84 165 170 175
 86 Ile Ala Phe Ile Ala Phe Ser Thr Asn Pro Glu Leu Ala Lys Lys Ile
 88 180 185 190

*Misaligned
 numbers - see
 item 3
 in Error
 summary
 sheet*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

90 Lys Ile Phe Phe Ala Leu Ala Pro Val Val Thr Val Lys Tyr Thr Gln
92 195 200 205
94 Ser Pro Met Lys Lys Leu Thr Thr Leu Ser Arg Arg Val Val Lys Val
96 210 215 220
98 Cys Asp Phe Pro Ser Phe Asn Leu Lys
100 225 230
103 <210> SEQ ID NO: 2
105 <211> LENGTH: 273
107 <212> TYPE: PRT
109 <213> ORGANISM: Homo sapiens
113 <400> SEQUENCE: 2
115 Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu Ala
117 1 5 10 15
119 Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val Cys Ala
121 20 25 30
123 Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val Gln Arg Val
125 35 40 45
127 Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg Ala Cys Ser Thr
E--> 129 50 55 60
131 Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg Ser Pro Gly Leu Ala
E--> 133 65 70 75 80
135 Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro Gly Trp Lys Arg Thr Ser
E--> 137 85 90 95
139 Gly Leu Pro Gly Ala Cys Gly Ala Ala Ile Cys Gln Pro Pro Cys Arg
E--> 141 100 105 110
143 Asn Gly Gly Ser Cys Val Gln Pro Gly Arg Cys Arg Cys Pro Ala Gly
E--> 145 115 120 125
147 Trp Arg Gly Asp Thr Cys Gln Ser Asp Val Asp Glu Cys Ser Ala Arg
E--> 149 130 135 140
151 Arg Gly Gly Cys Pro Gln Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp
E--> 153 145 150 155 160
155 Cys Gln Cys Trp Glu Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys
E--> 157 165 170 175
159 Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val
E--> 161 180 185 190
163 Asp Ser Ala Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp
E--> 165 195 200 205
167 Leu Leu Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu
E--> 169 210 215 220
171 Ala Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu
E--> 173 225 230 235 240
175 Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu Gln
E--> 177 245 250 255
179 Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys Lys Asp
E--> 181 260 265 270
183 Ser
185 <210> SEQ ID NO: 3
187 <211> LENGTH: 282
189 <212> TYPE: PRT

P.3

*Same
misalignment
errors*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

191 <213> ORGANISM: Homo sapiens
 195 <400> SEQUENCE: 3
 197 Met Ser Gly Ser Ser Leu Pro Ser Ala Leu Ala Leu Ser Leu Leu
 E--> 199 1 5 10 15 same
 201 Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Glu Pro
 203 20 25 30
 205 Arg Ile Val Thr Ser Glu Glu Val Ile Ile Arg Asp Ser Pro Val Leu
 207 35 40 45
 209 Pro Val Thr Leu Gln Cys Asn Leu Thr Ser Ser His Thr Leu Thr
 211 50 55 60
 213 Tyr Ser Tyr Trp Thr Lys Asn Gly Val Glu Leu Ser Ala Thr Arg Lys
 215 65 70 75 80
 217 Asn Ala Ser Asn Met Glu Tyr Arg Ile Asn Lys Pro Arg Ala Glu Asp
 219 85 90 95
 221 Ser Gly Glu Tyr His Cys Val Tyr His Phe Val Ser Ala Pro Lys Ala
 223 100 105 110
 225 Asn Ala Thr Ile Glu Val Lys Ala Ala Pro Asp Ile Thr Gly His Lys
 227 115 120 125
 229 Arg Ser Glu Asn Lys Asn Glu Gly Gln Asp Ala Thr Met Tyr Cys Lys
 231 130 135 140
 233 Ser Val Gly Tyr Pro His Pro Asp Trp Ile Trp Arg Lys Lys Glu Asn
 235 145 150 155 160
 237 Gly Met Pro Met Asp Ile Val Asn Thr Ser Gly Arg Phe Phe Ile Ile
 239 165 170 175
 241 Asn Lys Glu Asn Tyr Thr Glu Leu Asn Ile Val Asn Leu Gln Ile Thr
 243 180 185 190
 245 Glu Asp Pro Gly Glu Tyr Glu Cys Asn Ala Thr Asn Ala Ile Gly Ser
 247 195 200 205
 249 Ala Ser Val Val Thr Val Leu Arg Val Arg Ser His Leu Ala Pro Leu
 251 210 215 220
 253 Trp Pro Phe Leu Gly Ile Leu Ala Glu Ile Ile Leu Val Val Ile
 255 225 230 235 240
 257 Ile Val Val Tyr Glu Lys Arg Lys Arg Pro Asp Glu Val Pro Asp Asp
 259 245 250 255
 261 Asp Glu Pro Ala Gly Pro Met Lys Thr Asn Ser Thr Asn Asn His Lys
 263 260 265 270
 265 Asp Lys Asn Leu Arg Gln Arg Asn Thr Asn
 267 275 280
 270 <210> SEQ ID NO: 4
 272 <211> LENGTH: 238
 274 <212> TYPE: PRT
 276 <213> ORGANISM: Homo sapiens p.4
 280 <400> SEQUENCE: 4
 282 Met Ser Leu Asn Glu His Ser Met Gln Ala Leu Ser Trp Arg Lys Leu
 284 1 5 10 15
 286 Tyr Leu Ser Arg Ala Lys Leu Lys Ala Ser Ser Arg Thr Ser Ala Leu
 288 20 25 30
 290 Leu Ser Gly Phe Ala Met Val Ala Met Val Glu Val Gln Leu Asp Ala
 292 35 40 45

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

294 Asp His Asp Tyr Pro Pro Gly Leu Leu Ile Ala Phe Ser Ala Cys Thr
296 50 55 60
298 Thr Val Leu Val Ala Val His Leu Phe Ala Leu Met Ile Ser Thr Cys
E--> 300 65 70 75 80
302 Ile Leu Pro Asn Ile Glu Ala Val Ser Asn Val His Asn Leu Asn Ser
E--> 304 85 90 95
306 Val Lys Glu Ser Pro His Glu Arg Met His Arg His Ile Glu Leu Ala
E--> 308 100 105 110
310 Trp Ala Phe Ser Thr Val Ile Gly Thr Leu Leu Phe Leu Ala Glu Val
E--> 312 115 120 125
314 Val Leu Leu Cys Trp Val Lys Phe Leu Pro Leu Lys Lys Gln Pro Gly
E--> 316 130 135 140
318 Gln Pro Arg Pro Thr Ser Lys Pro Pro Ala Ser Gly Ala Ala Ala Asn
E--> 320 145 150 155 160
322 Val Ser Thr Ser Gly Ile Thr Pro Gly Gln Ala Ala Ala Ile Ala Ser
E--> 324 165 170 175
326 Thr Thr Ile Met Val Pro Phe Gly Leu Ile Phe Ile Val Phe Ala Val
E--> 328 180 185 190
330 His Phe Tyr Arg Ser Leu Val Ser His Lys Thr Asp Arg Gln Phe Gln
E--> 332 195 200 205
334 Glu Leu Asn Glu Leu Ala Glu Phe Ala Arg Leu Gln Asp Gln Leu Asp
E--> 336 210 215 220
338 His Arg Gly Asp His Pro Leu Thr Pro Gly Ser His Tyr Ala
E--> 340 225 230 235
344 <210> SEQ ID NO: 5
346 <211> LENGTH: 372
348 <212> TYPE: PRT
350 <213> ORGANISM: Homo sapiens
354 <400> SEQUENCE: 5
356 Met Leu Ala Asn Ser Ser Ser Thr Asn Ser Ser Val Leu Pro Cys Pro
358 1 5 10 15
360 Asp Tyr Arg Pro Thr His Arg Leu His Leu Val Val Tyr Ser Leu Val
362 20 25 30
364 Leu Ala Ala Gly Leu Pro Leu Asn Ala Leu Ala Leu Trp Val Phe Leu
366 35 40 45
368 Arg Ala Leu Arg Val His Ser Val Val Ser Val Tyr Met Cys Asn Leu
370 50 55 60
372 Ala Ala Ser Asp Leu Leu Phe Thr Leu Ser Leu Pro Val Arg Leu Ser
E--> 374 65 70 75 80
376 Tyr Tyr Ala Leu His His Trp Pro Phe Pro Asp Leu Leu Cys Gln Thr
E--> 378 85 90 95
380 Thr Gly Ala Ile Phe Gln Met Asn Met Tyr Gly Ser Cys Ile Phe Leu
E--> 382 100 105 110
384 Met Leu Ile Asn Val Asp Arg Tyr Ala Ala Ile Val His Pro Leu Arg
E--> 386 115 120 125
388 Leu Arg His Leu Arg Arg Pro Arg Val Ala Arg Leu Leu Cys Leu Gly
E--> 390 130 135 140
392 Val Trp Ala Leu Ile Leu Val Phe Ala Val Pro Ala Ala Arg Val His
E--> 394 145 150 155 160

Jane

Jane

see p.5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003

TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
 Output Set: N:\CRF4\04022003\J019114.raw

396 Arg Pro Ser Arg Cys Arg Tyr Arg Asp Leu Glu Val Arg Leu Cys Phe
 E--> 398 165 170 175
 400 Glu Ser Phe Ser Asp Glu Leu Trp Lys Gly Arg Leu Leu Pro Leu Val
 E--> 402 180 185 190
 404 Leu Leu Ala Glu Ala Leu Gly Phe Leu Leu Pro Leu Ala Ala Val Val
 E--> 406 195 200 205
 408 Tyr Ser Ser Gly Arg Val Phe Trp Thr Leu Ala Arg Pro Asp Ala Thr
 E--> 410 210 215 220
 412 Gln Ser Gln Arg Arg Arg Lys Thr Val Arg Leu Leu Leu Ala Asn Leu
 E--> 414 225 230 235 240
 416 Val Ile Phe Leu Leu Cys Phe Val Pro Tyr Asn Ser Thr Leu Ala Val
 E--> 418 245 250 255
 420 Tyr Gly Leu Leu Arg Ser Lys Leu Val Ala Ala Ser Val Pro Ala Arg
 E--> 422 260 265 270
 424 Asp Arg Val Arg Gly Val Leu Met Val Met Val Leu Leu Ala Gly Ala
 E--> 426 275 280 285
 428 Asn Cys Val Leu Asp Pro Leu Val Tyr Tyr Phe Ser Ala Glu Gly Phe
 E--> 430 290 295 300
 432 Arg Asn Thr Leu Arg Gly Leu Gly Thr Pro His Arg Ala Arg Thr Ser
 E--> 434 305 310 315 320
 436 Ala Thr Asn Gly Thr Arg Ala Ala Leu Ala Gln Ser Glu Arg Ser Ala
 E--> 438 325 330 335
 440 Val Thr Thr Asp Ala Thr Arg Pro Asp Ala Ala Ser Gln Gly Leu Leu
 E--> 442 340 345 350
 444 Arg Pro Ser Asp Ser His Ser Leu Ser Ser Phe Thr Gln Cys Pro Gln
 E--> 446 355 360 365
 448 Asp Ser Ala Leu
 E--> 450 370
 454 <210> SEQ ID NO: 6
 456 <211> LENGTH: 146
 458 <212> TYPE: PRT
 460 <213> ORGANISM: Homo sapiens
 464 <400> SEQUENCE: 6
 466 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Leu Gly Gly
 468 1 5 10 15
 470 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys
 472 20 25 30
 474 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 476 35 40 45
 478 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 480 50 55 60
 482 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg
 484 65 70 75 80
 486 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro
 488 85 90 95
 490 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser
 E--> 492 100 105 110
 494 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu
 E--> 497 115 120 125

*Dane**Dane**P. 6*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

499 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro
E--> 501 130 135 140 *Jane*
 503 Cys Arg
 505 145
 508 <210> SEQ ID NO: 7
 510 <211> LENGTH: 302
 512 <212> TYPE: PRT
 514 <213> ORGANISM: Homo sapiens
 518 <400> SEQUENCE: 7
 520 Met Lys Ala Pro Gly Arg Leu Val Leu Ile Ile Leu Cys Ser Val Val
 522 1 5 10 15
 524 Phe Ser Ala Val Tyr Ile Leu Leu Cys Cys Trp Ala Gly Leu Pro Leu
 526 20 25 30
 528 Cys Leu Ala Thr Cys Leu Asp His His Phe Pro Thr Gly Ser Arg Pro
 530 35 40 45
 532 Thr Val Pro Gly Pro Leu His Phe Ser Gly Tyr Ser Ser Val Pro Asp
 534 50 55 60
 536 Gly Lys Pro Leu Val Arg Glu Pro Cys Arg Ser Cys Ala Val Val Ser
 538 65 70 75 80
 540 Ser Ser Gly Gln Met Leu Gly Ser Gly Leu Gly Ala Glu Ile Asp Ser
 542 85 90 95
 544 Ala Glu Cys Val Phe Arg Met Asn Gln Ala Pro Thr Val Gly Phe Glu
 546 100 105 110
 548 Ala Asp Val Gly Gln Arg Ser Thr Leu Arg Val Val Ser His Thr Ser
 550 115 120 125
 552 Val Pro Leu Leu Leu Arg Asn Tyr Ser His Tyr Phe Gln Lys Ala Arg
 554 130 135 140
 556 Asp Thr Leu Tyr Met Val Trp Gly Gln Gly Arg His Met Asp Arg Val
 558 145 150 155 160
 560 Leu Gly Gly Arg Thr Tyr Arg Thr Leu Leu Gln Leu Thr Arg Met Tyr
E--> 562 165 170 175 *Jane*
 564 Pro Gly Leu Gln Val Tyr Thr Phe Thr Glu Arg Met Met Ala Tyr Cys
E--> 566 180 185 190
 568 Asp Gln Ile Phe Gln Asp Glu Thr Gly Lys Asn Arg Arg Gln Ser Gly
E--> 570 195 200 205
 572 Ser Phe Leu Ser Thr Gly Trp Phe Thr Met Ile Leu Ala Leu Glu Leu
E--> 574 210 215 220
 576 Cys Glu Glu Ile Val Val Tyr Gly Met Val Ser Asp Ser Tyr Cys Arg
E--> 578 225 230 235 240
 580 Glu Lys Ser His Pro Ser Val Pro Tyr His Tyr Phe Glu Lys Gly Arg
E--> 582 245 250 255
 584 Leu Asp Glu Cys Gln Met Tyr Leu Ala His Glu Gln Ala Pro Arg Ser
E--> 586 260 265 270
 588 Ala His Arg Phe Ile Thr Glu Lys Ala Val Phe Ser Arg Trp Ala Lys
E--> 590 275 280 285
 592 Lys Arg Pro Ile Val Phe Ala His Pro Ser Trp Arg Thr Glu
E--> 594 290 295 300
 661 <210> SEQ ID NO: 9
 663 <211> LENGTH: 542

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003

TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
 Output Set: N:\CRF4\04022003\J019114.raw

665 <212> TYPE: PRT
 667 <213> ORGANISM: Homo sapiens
 671 <400> SEQUENCE: 9
 673 Met Lys Met Lys Ser Gln Ala Thr Met Ile Cys Cys Leu Val Phe Phe
 675 1 5 10 15
 677 Leu Ser Thr Glu Cys Ser His Tyr Arg Ser Lys Ile His Leu Lys Ser
 679 20 25 30
 681 Tyr Ser Glu Val Ala Asn His Ile Leu Asp Thr Ala Ala Ile Ser Asn
 683 35 40 45
 685 Trp Ala Phe Ile Pro Asn Lys Asn Ala Ser Ser Asp Leu Leu Gln Ser
 687 50 55 60
 689 Val Asn Leu Phe Ala Arg Gln Leu His Ile His Asn Asn Ser Glu Asn
 691 65 70 75 80
 693 Ile Val Asn Glu Leu Phe Ile Gln Thr Lys Gly Phe His Ile Asn His
 695 85 90 95
 697 Asn Thr Ser Glu Lys Ser Leu Asn Phe Ser Met Ser Met Asn Asn Thr
 699 100 105 110
 701 Thr Glu Asp Ile Leu Gly Met Val Gln Ile Pro Arg Gln Glu Leu Arg
 703 115 120 125
 705 Lys Leu Trp Pro Asn Ala Ser Gln Ala Ile Ser Ile Ala Phe Pro Thr
 707 130 135 140
 709 Leu Gly Ala Ile Leu Arg Glu Ala His Leu Gln Asn Val Ser Leu Pro
 711 145 150 155 160
 713 Arg Gln Val Asn Gly Leu Val Leu Ser Val Val Leu Pro Glu Arg Leu
 715 165 170 175
 717 Gln Glu Ile Ile Leu Thr Phe Glu Lys Ile Asn Lys Thr Arg Asn Ala
 E--> 719 180 185 190
 721 Arg Ala Gln Cys Val Gly Trp His Ser Lys Lys Arg Arg Trp Asp Glu
 E--> 723 195 200 205
 725 Lys Ala Cys Gln Met Met Leu Asp Ile Arg Asn Glu Val Lys Cys Arg
 E--> 727 210 215 220
 729 Cys Asn Tyr Thr Ser Val Val Met Ser Phe Ser Ile Leu Met Ser Ser
 E--> 731 225 230 235 240
 733 Lys Ser Met Thr Asp Lys Val Leu Asp Tyr Ile Thr Cys Ile Gly Leu
 E--> 735 245 250 255
 737 Ser Val Ser Ile Leu Ser Leu Val Leu Cys Leu Ile Ile Glu Ala Thr
 E--> 739 260 265 270
 741 Val Trp Ser Arg Val Val Val Thr Glu Ile Ser Tyr Met Arg His Val
 E--> 743 275 280 285
 745 Cys Ile Val Asn Ile Ala Val Ser Leu Leu Thr Ala Asn Val Trp Phe
 E--> 747 290 295 300
 749 Ile Ile Gly Ser His Phe Asn Ile Lys Ala Gln Asp Tyr Asn Met Cys
 E--> 751 305 310 315 320
 753 Val Ala Val Thr Phe Phe Ser His Phe Phe Tyr Leu Ser Leu Phe Phe
 E--> 755 325 330 335
 757 Trp Met Leu Phe Lys Ala Leu Leu Ile Ile Tyr Gly Ile Leu Val Ile
 E--> 759 340 345 350
 761 Phe Arg Arg Met Met Lys Ser Arg Met Met Val Ile Gly Phe Ala Ile
 E--> 763 355 360 365

*Danne**P8*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

765 Gly Tyr Gly Cys Pro Leu Ile Ile Ala Val Thr Thr Val Ala Ile Thr
E--> 767 370 375 380
769 Glu Pro Glu Asn Gly Tyr Met Arg Pro Glu Ala Cys Trp Leu Asn Trp
E--> 771 385 390 395 400
773 Asp Asn Thr Lys Ala Leu Leu Ala Phe Ala Ile Pro Ala Phe Val Ile
E--> 775 405 410 415
777 Val Ala Val Asn Leu Ile Val Val Leu Val Val Ala Val Asn Thr Gln
E--> 779 420 425 430
781 Arg Pro Ser Ile Gly Ser Ser Lys Ser Gln Asp Val Val Ile Ile Met
E--> 783 435 440 445
785 Arg Ile Ser Lys Asn Val Ala Ile Leu Thr Pro Leu Leu Gly Leu Thr
E--> 787 450 455 460
789 Trp Gly Phe Gly Ile Ala Thr Leu Ile Glu Gly Thr Ser Leu Thr Phe
E--> 791 465 470 475 480
793 His Ile Ile Phe Ala Leu Leu Asn Ala Phe Gln Gly Phe Phe Ile Leu
E--> 795 485 490 495
797 Leu Phe Gly Thr Ile Met Asp His Lys Ile Arg Asp Ala Leu Arg Met
E--> 799 500 505 510
801 Arg Met Ser Ser Leu Lys Gly Lys Ser Arg Ala Ala Glu Asn Ala Ser
E--> 803 515 520 525
805 Leu Gly Pro Thr Asn Gly Ser Lys Leu Met Asn Arg Gln Gly
E--> 807 530 535 540
811 <210> SEQ ID NO: 10
813 <211> LENGTH: 276
815 <212> TYPE: PRT
817 <213> ORGANISM: Homo sapiens P.9
821 <400> SEQUENCE: 10
823 Met Gly Leu Pro Trp Gly Gln Pro His Leu Gly Leu Gln Met Leu Leu
825 1 5 10 15
827 Leu Ala Leu Asn Cys Leu Arg Pro Ser Leu Ser Leu Glu Leu Val Pro
829 20 25 30
831 Tyr Thr Pro Gln Ile Thr Ala Trp Asp Leu Glu Gly Lys Val Thr Ala
833 35 40 45
835 Thr Thr Phe Ser Leu Glu Gln Pro Arg Cys Val Phe Asp Gly Leu Ala
837 50 55 60
839 Ser Ala Ser Asp Thr Val Trp Leu Val Val Ala Phe Ser Asn Ala Ser
841 65 70 75 80
843 Arg Gly Phe Gln Asn Pro Glu Thr Leu Ala Asp Ile Pro Ala Ser Pro
845 85 90 95
847 Gln Leu Leu Thr Asp Gly His Tyr Met Thr Leu Pro Leu Ser Pro Asp
849 100 105 110
851 Gln Leu Pro Cys Gly Asp Pro Met Ala Gly Ser Gly Gly Ala Pro Val
853 115 120 125
855 Leu Arg Val Gly His Asp His Gly Cys His Gln Gln Pro Phe Cys Asn
857 130 135 140
859 Ala Pro Leu Pro Gly Pro Gly Pro Tyr Arg Val Lys Phe Leu Leu Met
861 145 150 155 160
863 Asp Thr Arg Gly Ser Pro Arg Ala Glu Thr Lys Trp Ser Asp Pro Ile
865 165 170 175

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

867 Thr Leu His Gln Gly Lys Thr Pro Gly Ser Ile Asp Thr Trp Pro Gly
869 180 185 190
871 Arg Arg Ser Gly Ser Met Ile Val Ile Thr Ser Ile Leu Ser Ser Leu
873 195 200 205
875 Ala Gly Leu Leu Leu Ala Phe Leu Ala Ala Ser Thr Met Arg Phe
877 210 215 220
879 Ser Ser Leu Trp Trp Pro Glu Ala Pro Glu Gln Leu Arg Ile Gly
881 225 230 235 240
883 Ser Phe Met Gly Lys Arg Tyr Met Thr His His Ile Pro Pro Ser Glu
E--> 885 245 250 255
887 Ala Ala Thr Leu Pro Val Gly Cys Lys Pro Gly Leu Asp Pro Leu Pro
E--> 889 260 265 270 *Same*

891 Ser Leu Ser Pro
893 275

1324 <210> SEQ ID NO: 21

1326 <211> LENGTH: 1308

1328 <212> TYPE: DNA

1330 <213> ORGANISM: Homo sapiens

1334 <220> FEATURE:

1336 <221> NAME/KEY: CDS

1338 <222> LOCATION: (76)...(777)

1341 <400> SEQUENCE: 21

1343 aaagaattcg aaaccgactt gcagaaggta aatgcccttg gaaaggact gctatttat 60
1345 taaggcagat cccaa atg tgg cag ctt tta gca gca tgc tgg atg ctt 111
1347 Met Trp Gln Leu Leu Ala Ala Ala Cys Trp Met Leu

1349 1 5 10

1351 ctt ctt gga tct atg tat ggt tat gac aag aaa gga aac aat gca aac 159
1353 Leu Leu Gly Ser Met Tyr Gly Tyr Asp Lys Lys Gly Asn Asn Ala Asn

1355 15 invalid nucleotide 20 25

E--> 1357 cct gaa get aat atg aat att agc cag att att tct tac tgg ggt tat
1359 Pro Glu Ala Asn Met Asn Ile Ser Gln Ile Ile Ser Tyr Trp Gly Tyr

1361 30 35 40

1363 cct tat gaa gag tat gat gtt aca aca aaa gat ggt tat atc ctt gga 255
1365 Pro Tyr Glu Glu Tyr Asp Val Thr Thr Lys Asp Gly Tyr Ile Leu Gly

1367 45 50 55 60

1369 att tat agg att cca cat gga aga gga tgc cca ggg agg aca gct cca 303

1371 Ile Tyr Arg Ile Pro His Gly Arg Gly Cys Pro Gly Arg Thr Ala Pro

1373 65 70 75

1375 aag cct gct gtg tat ttg cag cat ggc tta att gca tct gcc agt aac 351

1377 Lys Pro Ala Val Tyr Leu Gln His Gly Leu Ile Ala Ser Ala Ser Asn

1379 80 85 90

1380 tgg att tgc aac ctg ccc aac aac agt ttg gct ttc ctt ctg gca gat

1382 Trp Ile Cys Asn Leu Pro Asn Asn Ser Leu Ala Phe Leu Leu Ala Asp

W--> 1384 95 100 105 *Misaligned*

1386 agt ggt tat gac gtg tgg ttg ggg aac agc cga gga aac act tgg tcc

1388 Ser Gly Tyr Asp Val Trp Leu Gly Asn Ser Arg Gly Asn Thr Trp Ser

W--> 1390 110 115 120 *hos.*

1392 aga aaa cac ctt aaa ttg tca ccg aaa tca cca gaa tac tgg gcc ttc

1394 Arg Lys His Leu Lys Leu Ser Pro Lys Ser Pro Glu Tyr Trp Ala Phe

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

W--> 1396	125	130	135	140	
1398	agt ttg gat gag atg gct aaa tat gac ctt cca gcc aca atc aat ttt				543
1400	Ser Leu Asp Glu Met Ala Lys Tyr Asp Leu Pro Ala Thr Ile Asn Phe				
W--> 1402	145	150	155		
1404	atc ata gag aaa act gga cag aag cga ctc tac tac gtg ggc cac tca				591
1406	Ile Ile Glu Lys Thr Gly Gln Lys Arg Leu Tyr Tyr Val Gly His Ser				
W--> 1408	160	165	170		
1410	caa ggc acc acc ata gct ttt ata gca ttt tct aca aac cca gaa ctg				639
1412	Gln Gly Thr Thr Ile Ala Phe Ile Ala Phe Ser Thr Asn Pro Glu Leu				
W--> 1414	175	180	185		
1416	gct aaa aag att aag ata ttt ttt gca ctg gct cca gtt gtc aca gtt				687
1418	Ala Lys Lys Ile Lys Ile Phe Phe Ala Leu Ala Pro Val Val Thr Val				
W--> 1420	190	195	200		
1422	aaa tac acc caa agt cct atg aaa aaa cta aca acc ctt tcc agg cga				735
1424	Lys Tyr Thr Gln Ser Pro Met Lys Lys Leu Thr Thr Leu Ser Arg Arg				
W--> 1426	205	210	215	220	
1428	gta gtt aag gta tgt gac ttc cca agt ttt aat ctg aaa taacta				780
1430	Val Val Lys Val Cys Asp Phe Pro Ser Phe Asn Leu Lys				
W--> 1432	225	230			
1434	aaagtagctc tatttccatt gatttcaaca gaagaccaat gacattttac aaacttctga				840
1436	gaaaataata ggtattcaag atatccatgt aagttcaactg atgatgtatg caatcttatt				900
1438	agcagagttc agggactcc ccctgttgct aatctgccct actttcttca tctatgtctt				960
1440	gaaacgtgtc tgctgcgccca ttccctcaacc acagatagag agaacttatt tgattgattt				1020
1442	gttttgttcaa ttttagtagat tgaatttttc tagtgatccc taatttttta gggcagtgg				1080
1444	tggttgagtt cacagcatgg aatcagatgg tggatgtttt aatgttattt ctatgatttt				1140
1446	caagctgggt aaatttggtc aagacctaacc gttctttca tctgtaatgt ggggataata				1200
1448	atagttctta ctcataaggcc taccctgagg actaagtaaa ttaatacagc atatcctcta				1260
1450	aaacaatgtt attgatattt taaaccttta ataaatgtta acaattttt				1308
1765	<210> SEQ ID NO: 24				
1767	<211> LENGTH: 1260				
1769	<212> TYPE: DNA				
1771	<213> ORGANISM: Homo sapiens				
1775	<220> FEATURE:				
1777	<221> NAME/KEY: CDS				
1779	<222> LOCATION: (147)...(863)				
1783	<400> SEQUENCE: 24				
1785	agctcccccc aagcgccggc agcaccacca gggcagccgc cggcgcagcg				60
1787	gggacgggaa gccccccgggg gccccccac tgccgcgtc cgccgtcacc taccggact				120
1789	ggatcggcca gagttactcc gaggtg atg agc ctc aac gag cac tcc atg				170
1791	Met Ser Leu Asn Glu His Ser Met				
1793	1	5			
1795	cag gcg ctg tcc tgg cgc aag ctc tac ttg agc cgc gcc aag ctt aaa				218
1797	Gln Ala Leu Ser Trp Arg Lys Leu Tyr Leu Ser Arg Ala Lys Leu Lys				
1799	10	15	20		
1801	gcc tcc agc cgg acc tcg gct ctg ctc tcc ggc ttc gcc atg gtg gca				266
1803	Ala Ser Ser Arg Thr Ser Ala Leu Leu Ser Gly Phe Ala Met Val Ala				
1805	25	30	35	40	
1807	atg gtg gag gtg cag ctg gac gct gac cac gac tac cca ccg ggg ctg				314
1809	Met Val Glu Val Gln Leu Asp Ala Asp His Tyr Pro Pro Gly Leu				

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

1811	45	50	55		
1813	ctc atc gcc ttc agt gcc tgc acc aca gtg ctg gtg gct gtg cac ctg			362	
1815	Leu Ile Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala Val His Leu				
W--> 1817	60	65	70		
1819	ttt gcg ctc atg atc agc acc tgc atc ctg ccc aac atc gag gcg gtg			410	
1821	Phe Ala Leu Met Ile Ser Thr Cys Ile Leu Pro Asn Ile Glu Ala Val				
W--> 1823	75	80	85		
1825	agc aac gtg cac aat ctc aac tcg gtc aag gag tcc ccc cat gag cgc			458	
1827	Ser Asn Val His Asn Leu Asn Ser Val Lys Glu Ser Pro His Glu Arg				
W--> 1829	90	95	100		
1831	atg cac cgc cac atc gag ctg gcc tgg gcc ttc tcc acc gtc atc ggc			506	
1833	Met His Arg His Ile Glu Leu Ala Trp Ala Phe Ser Thr Val Ile Gly				
W--> 1835	105	110	115	120	
1837	acg ctg ctc ttc cta gct gag gtg gtg ctg ctc tgc tgg gtc aag ttc			554	
1839	Thr Leu Leu Phe Leu Ala Glu Val Val Leu Leu Cys Trp Val Lys Phe				
W--> 1841	125	130	135		
1843	ttg ccc ctc aag aag cag cca ggc cag cca agg ccc acc agc aag ccc			602	
1845	Leu Pro Leu Lys Gln Pro Gly Gln Pro Arg Pro Thr Ser Lys Pro				
W--> 1847	140	145	150		
1849	ccc gcc agt ggc gca gca gcc aac gtc agc acc agc ggc atc acc ccg			650	
1851	Pro Ala Ser Gly Ala Ala Ala Asn Val Ser Thr Ser Gly Ile Thr Pro				
W--> 1853	155	160	165		
E--> 1855	ggc cag gca get	gcc atc	gcc tcg acc acc atc atg	gtg ccc ttc ggc	698
1857	Gly Gln Ala Ala Ala Ile Ala Ser Thr Thr Ile Met Val Pro Phe Gly				
W--> 1859	170	175	180		
1861	ctg atc ttt atc gtc ttc gcc gtc cac ttc tac cgc tca ctg gtt agc			746	
1863	Leu Ile Phe Ile Val Phe Ala Val His Phe Tyr Arg Ser Leu Val Ser				
W--> 1865	185	190	195	200	
1867	cat aag acc gac cga cag ttc cag gag ctc aac gag ctg gcg gag ttt			794	
1869	His Lys Thr Asp Arg Gln Phe Gln Glu Leu Asn Glu Leu Ala Glu Phe				
W--> 1871	205	210	215		
1873	gcc cgc tta cag gac cag ctg gac cac aga ggg gac cac ccc ctg acg			842	
1875	Ala Arg Leu Gln Asp Gln Leu Asp His Arg Gly Asp His Pro Leu Thr				
W--> 1877	220	225	230		
1879	ccc ggc agc cac tat gcc taggccccatg tggctctggc ccttccagg			890	
1881	Pro Gly Ser His Tyr Ala				
W--> 1883	235				
1885	ctttggcctt acgcccttcc ccttgacctt gtcctgcccc agcctcacgg acagcctgcg			950	
1887	cagggggctg ggcttcagca aggggcagag ctggaggaga agaggattt tataagagaa			1010	
1889	atttctgcac ttgtaaactg tcctctaaga gaataagcat ttctgttct tccagctcca			1070	
1891	ggtcacaccc ctgttggag gcgggtgggg gccaaagtgg gcccacacac tcgctgtgtc			1130	
1893	ccctctctcc ccctgtgcca gtgccacctg ggtgcctcct cctgtcctgt ccgtctcaac			1190	
1895	ctccctcccg tccagcattt agtgtgtaca tgtgtgtgtg acacataaat atactcataa			1250	
1897	ggacaccc			1260	
1901	<210> SEQ ID NO: 25				
1903	<211> LENGTH: 1720				
1905	<212> TYPE: DNA				
1907	<213> ORGANISM: Homo sapiens				
1911	<220> FEATURE:				

β.12

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

1913 <221> NAME/KEY: CDS
 1915 <222> LOCATION: (282)...(1400)
 1918 <400> SEQUENCE: 25
 1920 agcaaagac agtgcggcagg ccagctcaga gggcaaatgg gacagatccc agaggccctg 60
 1922 aggaggcttc tgctgtat gaagctgtga ccaaacgcac ccaacccttg gcagccatct 120
 1924 gtccctgcag ccatacgcca cattcccatg acctccctct gcttgtttg ggaccatgtc 180
 1926 tgtacagcct cttagccccca gccccggagg tgaatgccat gccatgattc tggtgtgctc 240
 1928 catggcatcc ccagcctagc tcccaatccc actttggcac g atg tta gcc aac 293
 1930 Met Leu Ala Asn
 1932 1
 1934 agc tcc tca acc aac agt tct gtt ctc ccg tgt cct gac tac cga cct 341
 1936 Ser Ser Ser Thr Asn Ser Ser Val Leu Pro Cys Pro Asp Tyr Arg Pro
 1938 5 10 15 20
 1940 acc cac cgc ctg cac ttg gtg gtc tac agc ttg gtg ctg gct gcc ggg 389
 1942 Thr His Arg Leu His Leu Val Val Tyr Ser Leu Val Leu Ala Ala Gly
 1944 25 30 35
 1946 ctc ccc ctc aac gcg cta gcc ctc tgg gtc ttc ctg cgc gct ctc cgc 437
 1948 Leu Pro Leu Asn Ala Leu Ala Leu Trp Val Phe Leu Arg Ala Leu Arg
 1950 40 45 50 *invalid* ↗
E--> 1952 gtg cac tcg gtg gtg agc gtg tac atg tgt aac ctg gcg gcc age gac 485
 1954 Val His Ser Val Val Ser Val Tyr Met Cys Asn Leu Ala Ala Ser Asp
 1956 55 60 65
 1958 ctg ctc ttc acc ctc tcg ctg ccc gtt cgt ctc tcc tac tac gca ctg 533
 1960 Leu Leu Phe Thr Leu Ser Leu Pro Val Arg Leu Ser Tyr Tyr Ala Leu
 1962 70 75 80
 1964 cac cac tgg ccc ttc ccc gac ctc ctg tgc cag acg acg ggc gcc atc 581
 1966 His His Trp Pro Phe Pro Asp Leu Leu Cys Gln Thr Thr Gly Ala Ile
 1968 85 90 95 100
 1970 ttc cag atg aac atg tac ggc agc tgc atc ttc ctg atg ctc atc aac 629
 1972 Phe Gln Met Asn Met Tyr Gly Ser Cys Ile Phe Leu Met Leu Ile Asn
 1974 105 110 115
 1976 gtg gac cgc tac gcc gcc atc gtg cac ccg ctg cga ctg cgc cac ctg 677
 1978 Val Asp Arg Tyr Ala Ala Ile Val His Pro Leu Arg Leu Arg His Leu
 1980 120 125 130
 1982 cgg cgg ccc cgc gtg gcg cgg ctc tgc ctg ggc gtg tgg gcg ctc 725
 1984 Arg Arg Pro Arg Val Ala Arg Leu Leu Cys Leu Gly Val Trp Ala Leu
 1986 135 140 145
 1988 atc ctg gtg ttt gcc gtg ccc gcc cgc gtg cac agg ccc tgc cgt 773
 1990 Ile Leu Val Phe Ala Val Pro Ala Ala Arg Val His Arg Pro Ser Arg
 1992 150 155 160
 1994 tgc cgc tac cgg gac ctc gag gtg cgc cta tgc ttc gag agc ttc agc 821
 1996 Cys Arg Tyr Arg Asp Leu Glu Val Arg Leu Cys Phe Glu Ser Phe Ser
 1998 165 170 175 180
 2000 gac gag ctg tgg aaa ggc agg ctg ctg ccc ctc gtg ctg ctg gcc gag 869
 2002 Asp Glu Leu Trp Lys Gly Arg Leu Leu Pro Leu Val Leu Leu Ala Glu
 2004 185 190 195
 2006 gcg ctg ggc ttc ctg ctg ccc ctg gcg gcg gtg gtc tac tgc tgc ggc 917
 2008 Ala Leu Gly Phe Leu Leu Pro Leu Ala Ala Val Val Tyr Ser Ser Gly
 2010 200 205 210

P. 13

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

2012	cga gtc ttc tgg acg ctg gcg cgc ccc gac gcc acg cag agc cag cgg	965
2014	Arg Val Phe Trp Thr Leu Ala Arg Pro Asp Ala Thr Gln Ser Gln Arg	
2016	215 220 225	
2018	cgg cgg aag acc gtg cgc ctc ctg ctg gct aac ctc gtc atc ttc ctg	1013
2020	Arg Arg Lys Thr Val Arg Leu Leu Ala Asn Leu Val Ile Phe Leu	
2022	230 235 240	
2024	ctg tgc ttc gtg ccc tac aac agc acg ctg gcg gtc tac ggg ctg ctg	1061
2026	Leu Cys Phe Val Pro Tyr Asn Ser Thr Leu Ala Val Tyr Gly Leu Leu	
2028	245 250 255 260	
2030	cgg agc aag ctg gtg gcg gcc agc gtg cct gcc cgc gat cgc gtg cgc	1109
2032	Arg Ser Lys Leu Val Ala Ala Ser Val Pro Ala Arg Asp Arg Val Arg	
2034	265 270 275	
2036	ggg gtg ctg atg gtg atg gtg ctg ctg gcc ggc gcc aac tgc gtg ctg	1157
2038	Gly Val Leu Met Val Met Val Leu Leu Ala Gly Ala Asn Cys Val Leu	
2040	280 285 290	
E-->	2042 gac ccg ctg gtg tac tac ttt agc gcc gag ggc ttc cgc aac ade ctg	1205
2044	Asp Pro Leu Val Tyr Tyr Phe Ser Ala Glu Gly Phe Arg Asn Thr Leu	
2046	295 300 305	
2048	cgc ggc ctg ggc act ccg cac cgg gcc agg acc tcg gcc acc aac ggg	1253
2050	Arg Gly Leu Gly Thr Pro His Arg Ala Arg Thr Ser Ala Thr Asn Gly	
2052	310 315 320	
2054	acg ccg gcg ctc gcg caa tcc gaa agg tcc gcc gtc acc acc gac	1301
2056	Thr Arg Ala Ala Leu Ala Gln Ser Glu Arg Ser Ala Val Thr Thr Asp	
2058	325 330 335 340	
2060	gcc acc agg ccg gat gcc gcc agt cag ggg ctg ctc cga ccc tcc gac	1349
2062	Ala Thr Arg Pro Asp Ala Ala Ser Gln Gly Leu Leu Arg Pro Ser Asp	
2064	345 350 355	
2066	tcc cac tct ctg tct tcc aca cag tgt ccc cag gat tcc gcc ctc	1397
2068	Ser His Ser Leu Ser Ser Phe Thr Gln Cys Pro Gln Asp Ser Ala Leu	
2070	360 365 370	
2072	tga acacacatgc cattgcgctg tccgtccccg actcccaacg cctctcggtc	1450
2074	tggaggctt acagggtgt a cacaagaa ggtggctgg gcacttggac ctttgggtgg	1510
2076	caattccagc ttagcaacgc agaagagtac aaagtgtgga agccaggggcc cagggaaaggc	1570
2078	agtgctgctg gaaatggctt ctttaaactg tgacacgca gagcacccct tctccagcgg	1630
2080	tggaaatgt a tgcagagagc ccacccgtgc agagggcaga agaggacgaa atgcctttgg	1690
2082	gtggcaggg cattaaactg ctaaaagctg	1720
2503	<210> SEQ ID NO: 29	
2505	<211> LENGTH: 2667	
2507	<212> TYPE: DNA	
2509	<213> ORGANISM: Homo sapiens	
2513	<220> FEATURE:	
2515	<221> NAME/KEY: CDS	
2517	<222> LOCATION: (229)...(1857)	
2521	<400> SEQUENCE: 29	
2523	gttctcagat cggcttctcg caacaggcag tcagttctca ctggccccc tggactcccc	60
2525	tttcaaaaat ggagaagaca gatcacagcc actgaccagg gaccgtggga ggtgccacgt	120
2527	atgggtgagg catcatgcta gggagctgag ctctgacctt cctgctgggt gattctccac	180
2529	ctctggctg ctagatctac ttccctggatg ccgtgaagat cctcatgt atg aaa	234
2531		Met Lys

Q. 14

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003

TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
 Output Set: N:\CRF4\04022003\J019114.raw

2533		1	
2535 atg aag tcc cag gca acc atg att tgc tgc tta gtg ttc ttt ctg tcc		282	
2537 Met Lys Ser Gln Ala Thr Met Ile Cys Cys Leu Val Phe Phe Leu Ser			
2539 5 10 15			
2541 aca gaa tgt tcc cac tat aga tcc aag att cac cta aaa agc tat agt		330	
2543 Thr Glu Cys Ser His Tyr Arg Ser Lys Ile His Leu Lys Ser Tyr Ser			
2545 20 25 30			
2547 gaa gtg gcc aac cac atc ctc gac aca gca gcc att tca aac tgg gct		378	
2549 Glu Val Ala Asn His Ile Leu Asp Thr Ala Ala Ile Ser Asn Trp Ala			
2551 35 40 45 50			
2553 ttc att ccc aac aaa aat gcc agc tcg gat ttg ttg cag tca gtg aat		426	
2555 Phe Ile Pro Asn Lys Asn Ala Ser Ser Asp Leu Leu Gln Ser Val Asn			
2557 55 60 65			
2559 ttg ttt gcc aga caa ctc cac atc cac aat aat tct gag aac att gtg		474	
2561 Leu Phe Ala Arg Gln Leu His Ile His Asn Asn Ser Glu Asn Ile Val			
2563 70 75 80			
2565 aat gaa ctc ttc att cag aca aaa ggg ttt cac atc aac cat aat acc		522	
2567 Asn. Glu Leu Phe Ile Gln Thr Lys Gly Phe His Ile Asn His Asn Thr			
2569 85 90 95			
2571 tca gag aaa agc ctc aat ttc tcc atg agc atg aac aat acc aca gaa		570	
2573 Ser Glu Lys Ser Leu Asn Phe Ser Met Ser Met Asn Asn Thr Thr Glu			
2575 100 105 110			
2577 gat atc tta gga atg gta cag att ccc agg caa gag cta agg aag ctg		618	
2579 Asp Ile Leu Gly Met Val Gln Ile Pro Arg Gln Glu Leu Arg Lys Leu			
2581 115 120 125 130			
2583 tgg cca aat gca tcc caa gcc att agc ata gct ttc cca acc ttg ggg		666	
2585 Trp Pro Asn Ala Ser Gln Ala Ile Ser Ile Ala Phe Pro Thr Leu Gly			
2587 135 140 145			
2589 gct atc ctg aga gaa gcc cac ttg caa aat gtg agt ctt ccc aga cag		714	
2591 Ala Ile Leu Arg Glu Ala His Leu Gln Asn Val Ser Leu Pro Arg Gln			
2593 150 155 160			
2595 gta aat ggt ctg gtg cta tca gtg gtt tta cca gaa agg ttg caa gaa		762	
2597 Val Asn Gly Leu Val Leu Ser Val Val Leu Pro Glu Arg Leu Gln Glu			
2599 165 170 175			
2601 atc ata ctc acc ttc gaa aag atc aat aaa acc cgc aat gcc aga gcc		810	
2603 Ile Ile Leu Thr Phe Glu Lys Ile Asn Lys Thr Arg Asn Ala Arg Ala			
2605 180 185 190			
2607 cag tgt gtt ggc tgg cac tcc aag aaa agg aga tgg gat gag aaa gcg		858	
2609 Gln Cys Val Gly Trp His Ser Lys Lys Arg Arg Trp Asp Glu Lys Ala			
w--> 2611 195 200 205 210			
2613 tgc caa atg atg ttg gat atc agg aac gaa gtg aaa tgc cgc tgt aac			
2615 Cys Gln Met Met Leu Asp Ile Arg Asn Glu Val Lys Cys Arg Cys Asn			
w--> 2617 215 220 225			
2619 tac acc agt gtg gtg atg tct ttt tcc att ctc atg tcc tcc aaa tcg		954	
2621 Tyr Thr Ser Val Val Met Ser Phe Ser Ile Leu Met Ser Ser Lys Ser			
w--> 2623 230 235 240			
2625 atg acc gac aaa gtt ctg gac tac atc acc tgc att ggg ctc agc gtc		1002	
2627 Met Thr Asp Lys Val Leu Asp Tyr Ile Thr Cys Ile Gly Leu Ser Val			
w--> 2629 245 250 255			

Musabgrid
No.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

2631	tca atc cta agc ttg gtt ctt tgc ctg atc att gaa gcc aca gtg tgg		1050
2633	Ser Ile Leu Ser Leu Val Leu Cys Leu Ile Ile Glu Ala Thr Val Trp		
W--> 2635	260	265	270
2637	tcc cgg gtg gtt gtg acg gag ata tca tac atg cgt cac gtg tgc atc		1098
2639	Ser Arg Val Val Thr Glu Ile Ser Tyr Met Arg His Val Cys Ile		
W--> 2641	275	280	285
2643	gtg aat ata gca gtg tcc ctt ctg act gcc aat gtg tgg ttt atc ata		1146
2645	Val Asn Ile Ala Val Ser Leu Leu Thr Ala Asn Val Trp Phe Ile Ile		
W--> 2647	295	300	305
2649	ggc tct cac ttt aac att aag gcc cag gac tac aac atg tgt gtt gca		1194
2651	Gly Ser His Phe Asn Ile Lys Ala Gln Asp Tyr Asn Met Cys Val Ala		
W--> 2653	310	315	320
2655	gtg aca ttt ttc agc cac ttt ttc tac ctc tct ctg ttt ttc tgg atg		1242
2657	Val Thr Phe Phe Ser His Phe Phe Tyr Leu Ser Leu Phe Phe Trp Met		
W--> 2659	325	330	335
2661	ctc ttc aaa gca ttg ctc atc att tat gga ata ttg gtc att ttc cgt		1290
2663	Leu Phe Lys Ala Leu Leu Ile Ile Tyr Gly Ile Leu Val Ile Phe Arg		
W--> 2665	340	345	350
2667	agg atg atg aag tcc cga atg atg gtc att ggc ttt gcc att ggc tat		1338
2669	Arg Met Met Lys Ser Arg Met Met Val Ile Gly Phe Ala Ile Gly Tyr		
W--> 2671	355	360	365
E--> 2673	ggg tgc cca ttg atc att gct gtc act aca gtt got atc aca gag cca		1386
2675	Gly Cys Pro Leu Ile Ile Ala Val Thr Thr Val Val Ala Ile Thr Glu Pro		
W--> 2677	375	380	385
2679	gag aac ggc tac atg aga cct gag gcc tgt tgg ctt aac tgg gac aat		1434
2681	Glu Asn Gly Tyr Met Arg Pro Glu Ala Cys Trp Leu Asn Trp Asp Asn		
W--> 2683	390	395	400
2685	acc aaa gcc ctt tta gca ttt gcc atc ccg gcg ttc gtc att gtg gct		1482
2687	Thr Lys Ala Leu Leu Ala Phe Ala Ile Pro Ala Phe Val Ile Val Ala		
W--> 2689	405	410	415
2691	gta aat ctg att gtg gtt ttg gtt gct gtc aac act cag agg ccc		1530
2693	Val Asn Leu Ile Val Val Leu Val Val Ala Val Asn Thr Gln Arg Pro		
W--> 2695	420	425	430
2697	tct att ggc agt tcc aag tct cag gat gtg gtc ata att atg agg atc		1578
2699	Ser Ile Gly Ser Ser Lys Ser Gln Asp Val Val Ile Ile Met Arg Ile		
W--> 2701	435	440	445
2703	agc aaa aat gtt gcc atc ctc act cca ctg ctg gga ctg acc tgg ggt		1626
2705	Ser Lys Asn Val Ala Ile Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly		
W--> 2707	455	460	465
2709	ttt gga ata gcc act ctc ata gaa ggc act tcc ttg acg ttc cat ata		1674
2711	Phe Gly Ile Ala Thr Leu Ile Glu Gly Thr Ser Leu Thr Phe His Ile		
W--> 2713	470	475	480
2715	att ttt gcc ttg ctc aat gct ttc cag ggt ttt ttc atc ctg ctg ttt		1722
2717	Ile Phe Ala Leu Leu Asn Ala Phe Gln Gly Phe Phe Ile Leu Leu Phe		
W--> 2719	485	490	495
2721	gga acc att atg gat cac aag ata aga gat gct ttg agg atg agg atg		1770
2723	Gly Thr Ile Met Asp His Lys Ile Arg Asp Ala Leu Arg Met Arg Met		
W--> 2725	500	505	510
2727	tct tca ctg aag ggg aaa tcg agg gca gct gag aat gca tca cta ggc		1818

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:31

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

2729 Ser Ser Leu Lys Gly Lys Ser Arg Ala Ala Glu Asn Ala Ser Leu Gly			
w--> 2731 515	520	525	530
2733 cca acc aat gga tct aaa tta atg aat cgt caa gga tgaaatgctg ccccat			1870
2735 Pro Thr Asn Gly Ser Lys Leu Met Asn Arg Gln Gly			<i>has</i>
w--> 2737	535	540	
2739 ttctcatgga tgtcctgaga ccaagagggg agatccagga gaaagaggcc atggaaagca			1930
2741 ggctggagtg aggaggaatg gtcatgccttc ctttgaagac tttctttct ttttcaggagt			1990
2743 gactcccaag ctcttggctcg gccgaagaaa aactgaggat aacatttgc gactggctt			2050
2745 taaggagcat gatttatgga ccccttaacc taccctgtgcc ctgcaagagg ctggcttctt			2110
2747 ggtcaatctt gacttagatta agagtcaatc tgcaagccat tttatgtct ccctggccag			2170
2749 ctgggggctg tagggccctg ctggccttgg tcgtcttca ctccctgaggc ctgctctgt			2230
2751 gctccatagc tcagtcctcc atcaactctgc gtggatcctg ggtactttgg acagtggagg			2290
2753 ttcgatccaa ttttaggggt agggttgggg gtgggagtg gggtgtgggt tggcaggagg			2350
2755 aagaatgagt ctactttgga gacaattaaag tcatggtacg tttcctaaag atagggaaacg			2410
2757 gaagaaaagc aagagaactg ttaaatatgc tgattatttt agtctatttt agaccttgag			2470
2759 taaactaatt tagcttctag gatccaagtt tccttatttg tgaaacagga aaaaaaaaaatt			2530
2761 cttgttagta ttactgtttg tttactgcac atgtttgtt ttgtgtatata			2590
2763 gtgtctttta aaaatactat atataaagaa gattctgggtt gttatttttag acataaacga			2650
2765 atatatgtac ctttcac			2667

misaligned

More errors
in following pages

(Segment 22)

10/09/14 17

use letter "l" (lower-case), not numeral "1"

Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val

10/19/14

18

<400> 27

agttccagc ccagtcggcc cggcccgaaa gccatggagc tccgagcggc ggatcgcgag	60
cctcctgcga acccccagcct gcacgcccgg ttagcattcg gccgggagat gcggcagtgg	120
aatcttggaaag ggcggtgaaa aacctacgtc ctggccctcgc cccgcctctc cattcgcccc	180
ccgggttagag aggtgcccgg ctccccacccc ttcccajccc cagccctgga gacagcagcc	240
cctagactac tgagggacag cgacagc atg aag gct ccg ggt cgg ctc gtg	291

Met Lys Ala Pro Gly Arg Leu Val

1 5

ctc atc atc ctg tgc tcc gtg gtc ttc tct gcc gtc tac atc ctc ctg	339
Leu Ile Ile Leu Cys Ser Val Val Phe Ser Ala Val Tyr Ile Leu Leu	

10 15 20

tgc tgc tgg gcc ggc ctg ccc ctc tgc ctg gcc acc tgc ctg gac cac	387
Cys Cys Trp Ala Gly Leu Pro Leu Cys Leu Ala Thr Cys Leu Asp His	

25 30 35 40

cac ttc ccc aca ggc tcc agg ccc act gtg ccg gga ccc ctg cac ttc	435
His Phe Pro Thr Gly Ser Arg Pro Thr Val Pro Gly Pro Leu His Phe	

45 50 55

agt gga tat agc agt gtg cca gat ggg aag ccg ctg gtc cgc gag ccc	483
Ser GIy Tyr Ser Ser Val Pro Asp Gly Lys Pro Leu Val Arg Glu Pro	

Gly

↓
lower-case "l"

Met Thr Asp Val
Ser Ile Lys Pro
Gly Val Arg Glu
Pro

10/09, 114 19

do NOT use numeral 1! Use a
lower-case
"l"

Ser Leu Trp Trp Pro Glu Glu Ala Pro Glu Gln Leu Arg Ile Gly Ser

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:32

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application No
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:68 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:129 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2
L:199 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
L:300 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:374 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5
M:332 Repeated in SeqNo=5
L:492 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6
L:562 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7
M:332 Repeated in SeqNo=7
L:719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9
M:332 Repeated in SeqNo=9
L:885 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10
M:332 Repeated in SeqNo=10
L:1357 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:1384 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1390 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1396 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1402 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1408 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1414 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1420 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1426 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1432 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:21
L:1513 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1519 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1525 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1531 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1537 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1541 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1
L:1543 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1549 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1555 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1561 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1567 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1573 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:22
L:1817 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1823 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1829 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1835 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1841 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1847 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1853 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1855 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/019,114

DATE: 04/02/2003
TIME: 12:50:32

Input Set : A:\01997.013000 sequence listing.txt
Output Set: N:\CRF4\04022003\J019114.raw

L:1859 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1865 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1871 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1877 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1883 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:24
L:1952 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:2042 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:2280 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1
L:2611 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2617 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2623 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2629 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2635 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2641 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2647 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2653 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2659 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2665 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2671 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2673 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:2677 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2683 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2689 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2695 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2701 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2707 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2713 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29
L:2885 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1